

# EUROPEAN PATENT OFFICE

## **Patent Abstracts of Japan**

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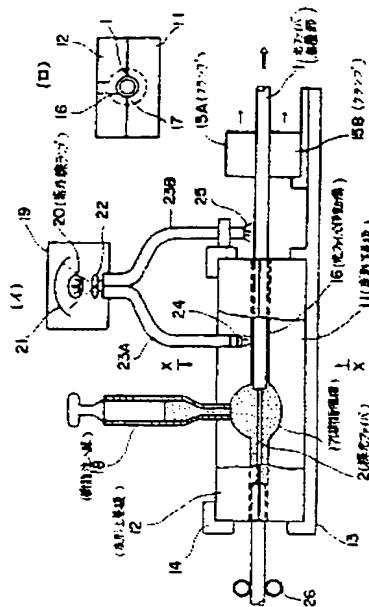
**APPLICATION DATE** : 14-01-89  
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APPLICANT : SUMITOMO ELECTRIC IND LTD;

**INVENTOR : OSANAI MITSUAKI;**

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**TITLE : METHOD OF MOLDING AND  
REINFORCING FUSION SPLICED  
PART OF OPTICAL FIBER**



**ABSTRACT :** PURPOSE: To form the good fusion spliced part of optical fibers while eliminating a peeling defect, etc., at the time of taking out the spliced part from a molding part by dividing the irradiation of a UV curing resin injected into the spliced part with UV light into two times.

**CONSTITUTION:** An upper base plate 12 for molding and a lower base plate 11 for molding are engaged and the molding part is constituted of a prescribed groove 16 and a resin storage tank 17. The fusion spliced parts of the optical fiber is disposed therein and the UV curing resin is injected form a resin injector 18 to mold the spliced part. The molded part is irradiated with UV light from the position of a lens 24 and is thereby cured to the half cured state. The molded part is irradiated again with the UV light in the position of an irradiation port 25 emitted from the base plate section by which the molded part is completely cured. As a result, the adhesion of the molded part and the base plates 11, 12 for molding is eliminated and the good molded part is obtd. without generating the peeling defect and projection at the time of taking out.

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